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Genes and Gene–Diet Interactions in the Dietary Management of Type 2 Diabetes and Prediabetic Conditions

Guest Editors:

Prof. Dr. Matti Uusitupa

Institute of Public Health and
Clinical Nutrition, University of
Eastern Finland, 70211 Kuopio,
Finland

Dr. Ursula Schwab

School of Medicine, Institute of
Public Health and Clinical
Nutrition, University of Eastern
Finland, 70211 Kuopio, Finland

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Message from the Guest Editors

Dear Colleagues,

Less is known about the interaction between dietary components and genetic variants that are involved in the increased risk of type 2 diabetes. Nutrigenetic studies examining gene–diet interactions in prediabetic and type 2 diabetic individuals are commonly based on former observational or intervention studies. In these studies, the putative impact of genetic markers has been examined in post-hoc/secondary analyses. Results show that responses in glucose and lipid metabolism or even type 2 diabetes risk may be different depending on genetic background. Nutrigenetic studies examining the impact of key dietary components in preselected genetic groups in humans have been less common due to the demanding study design. In a way, these studies form a golden standard when it comes to nutrigenetics. Ultimately, examining in dietary studies the genetic impact on relevant clinical end points in prediabetes and type 2 diabetes may lead to more personalized dietary advice providing genetic markers which substantially modify dietary responses.

Herewith, we encourage the researchers to submit relevant manuscripts to this Special Issue of *Nutrients*.



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Editors-in-Chief

Prof. Dr. Lluís Serra-Majem

1. Centro de Investigación Biomédica en Red Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Institute of Health Carlos III, 28029 Madrid, Spain
2. Research Institute of Biomedical and Health Sciences (IUIBS), University of Las Palmas de Gran Canaria, 35001 Las Palmas, Spain
3. Preventive Medicine Service, Centro Hospitalario Universitario Insular Materno Infantil (CHUIMI), Canarian Health Service, 35016 Las Palmas, Spain

Prof. Dr. Maria Luz Fernandez

Department of Nutritional Sciences, University of Connecticut, Storrs, CT 06269, USA

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Nutrients Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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